

What is Claimed is:

1. A paper sheet having on the surface thereof calcium carbonate,
said calcium carbonate having a maximum mean average size of 200
nm,
5 said paper sheet having less than 20 voids per 12.6 in² in the 6000th
sheet when tested in a Void Test.
2. The paper sheet of claim 1 wherein said calcium carbonate has a
maximum mean average size of 100 nm.
3. The paper sheet of claim 1 wherein said calcium carbonate has a
10 maximum mean average size of 50 nm.
4. The paper sheet of claim 1 having less than 15 voids per 12.6 in².
5. The paper sheet of claim 4 wherein said calcium carbonate has a
maximum mean average size of 100 nm.
6. The paper sheet of claim 4 wherein said calcium carbonate has a
15 maximum mean average size of 50 nm.
7. The paper sheet of claim 1 having less than 10 voids per 12.6 in².
8. The paper sheet of claim 7 wherein said calcium carbonate has a
maximum mean average size of 100 nm.
9. The paper sheet of claim 7 wherein said calcium carbonate has a
20 maximum mean average size of 50 nm.
10. The paper sheet of claim 1 in which said paper has a Gurley stiffness
10% greater than a paper not coated with said calcium carbonate.
11. A paper sheet having on the surface thereof calcium carbonate,
said calcium carbonate having a maximum mean average size of 200
25 nm,
said paper sheet having a Gurley stiffness 10% greater than a paper not
coated with said calcium carbonate.
12. The paper sheet of claim 11 wherein said calcium carbonate has a
maximum mean average size of 100 nm.
- 30 13. The paper sheet of claim 11 wherein said calcium carbonate has a
maximum mean average size of 50 nm.
14. The paper sheet of claim 11 wherein
said paper sheet has a Gurley stiffness 25% greater than a paper not
coated with said calcium carbonate.

15. The paper sheet of claim 14 wherein said calcium carbonate has a maximum mean average size of 100 nm.

16. The paper sheet of claim 14 wherein said calcium carbonate has a maximum mean average size of 50 nm.